



PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference RB-Dett-6wo	FOR FURTHER ACT	ION See Notific	eation of Transmittal of International Examination Report (Form PCT/IPEA/416)
International application No. PCT/CH2003/000186	International filing date 24 March 2003 (• •	Priority date (day/month/year) 17 April 2002 (17.04.2002)
International Patent Classification (IPC) or n B63H 1/08	ational classification and	IPC	
Applicant	DETTWILER	, Hermann	
This international preliminary exammend is transmitted to the applicant a This REPORT consists of a total of	according to Article 36.		national Preliminary Examining Authority
This report is also accompar	nied by ANNEXES, i.e., sloor this report and/or sheets	heets of the descripti s containing rectific	on, claims and/or drawings which have been ations made before this Authority (see Rule
These annexes consist of a t	otal of <u>14</u> si	neets.	3
3. This report contains indications rel	ating to the following iten	ns:	
I Basis of the report			
II Priority			
		novelty, inventive s	tep and industrial applicability
IV Lack of unity of in		h was and to morrelty i	nventive step or industrial applicability;
V Reasoned statement citations and explain	anations supporting such s	tatement	involutive step of incusarial approximation,
VI Certain documents	s cited		·
VII Certain defects in	the international applicati	on	
VIII Certain observation	ons on the international ap	plication	
Date of submission of the demand		Date of completion	of this report
08 November 2003 (08	3.11.2003)		7 July 2004 (27.07.2004)
Name and mailing address of the IPEA/E	P	Authorized officer	
Facsimile No.		Telephone No.	

Translation



Internacion	al ap	plica	tion	N	0.	
1						

PCT/CH2003/000186

I. Basis	of the rep	ort		
1. With	regard to	the elements of the international appli	cation:*	
	the inter	national application as originally filed		1
\boxtimes	the descr	iption:		
	pages		9-21	, as originally filed
	pages		·	, filed with the demand
	pages	1-8,8a,8b	, filed with the letter of	18 June 2004 (18.06.2004)
	the clain	IS:		, as originally filed
	pages _		as amended (toget	her with any statement under Article 19
	pages _		, as unionada (logo.	, filed with the demand
	pages _	1-15	, filed with the letter of	
	pages _	1-13	, med with the letter of	
	the draw			
	pages			, as originally filed
1	pages			, filed with the demand
	pages		, filed with the letter of	
	the seque	nce listing part of the description:		
	pages			, as originally filed
ŀ	pages			, filed with the demand
	pages		, filed with the letter of	f
	•			o this Authority in the language in which
the i	nternation	al application was filed, unless otherw	rise indicated under this item.	
The	se element	ts were available or furnished to this A	uthority in the following language	which is:
1 <u>U</u>		-	purposes of international search (unde	r Rule 23.1(b)).
l ∐		guage of publication of the internation		
	the lan or 55.3		the purposes of international prelimi	nary examination (under Rule 55.2 and/
3. Wit	h regard iminary e	to any nucleotide and/or amino xamination was carried out on the basi	acid sequence disclosed in the inte is of the sequence listing:	ernational application, the international
	contair	ned in the international application in v	vritten form.	
	filed to	gether with the international application	on in computer readable form.	•
	furnish	ed subsequently to this Authority in w	ritten form.	
	furnish	ed subsequently to this Authority in c	omputer readable form.	
	The s		ished written sequence listing does	not go beyond the disclosure in the
	The st			tical to the written sequence listing has
4.	The ar	nendments have resulted in the cancel	lation of:	
		the description, pages		
1		the claims, Nos.		
-		the drawings, sheets/fig		
5.	This re	port has been established as if (some the disclosure as filed, as indicated in	of) the amendments had not been made the Supplemental Box (Rule 70.2(c)).	de, since they have been considered to go
in and	this repoil 70.17).	t as "originally filed" and are not	annexed to this report since they a	invitation under Article 14 are referred to lo not contain amendments (Rule 70.16
** Any	y replacen	nent sheet containing such amendment	s must be referred to under item 1 and	annexed to this report.

al application No. Inter PCT/CH 03/00186

V.	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability;
	citations and explanations supporting such statement

Statement			
Novelty (N)	Claims	1-15	YES
	Claims		NO
Inventive step (IS)	Claims	1-15	YES
	Claims		NO
Industrial applicability (IA)	Claims	1-15	YES
-	Claims		NO

2. Citations and explanations

Reference is made to the following documents:

D1: FR-A-639928

D2: DE-A-4216531

D3: DE-A-139759

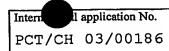
D4: WO-A-01/01017

US-A-2539436 D5:

Novelty of independent claim 1 1.

Document D1, which is considered to be the closest prior art, shows and describes the following (the references in parentheses are to D1):

Device for converting a rotational movement into a frustum-defining and spinning movement of a working lever (7) or, conversely, converting a frustum-defining and spinning movement of a working lever into a rotational movement (figures 1 and 2), with a lever bearing (2) mounted for rotation about an axis of rotation (b), in which the working lever is mounted for spin about a spin axis (a); wherein a rotationally lockable sun gear (4) is fitted around the axis of rotation and is coupled via transmission means (5) to a



rotationally fixed planet gear (6) fitted on the working lever, such that when the lever bearing rotates about the axis of rotation the working lever, being mounted in the lever bearing, rotates in the same direction and also spins in the opposite direction about the spin axis because of the planet gear coupled via the transmission means to the sun gear (figure 2).

The subject matter of claim 1 differs from the known device in that it has at least one additional working lever which is mounted for spin about a spin axis in the lever bearing, and on which is mounted a rotationally fixed planet gear which is coupled via transmission means to the sun gear or to another sun gear mounted around the axis of rotation, such that when the lever bearing rotates about the axis of rotation the additional working lever, being mounted in the lever bearing, rotates in the same direction and also spins in the opposite direction about the spin axis because of the planet gear coupled via the transmission means to the sun gear. The at least two working levers are mounted obliquely with clearance from the axis of rotation, and in a criss-cross formation.

The subject matter of claim 1 is therefore novel (PCT Article 33(2)).

2. Inventive step in independent claim 1

The problem addressed by the present invention can thus be seen as that of designing a movement-converting device which can be used for a variety of applications and has a simple mechanical construction.

The solution proposed in claim 1 involves an inventive step (PCT Article 33(3)) because the combination of features



specified in claim 1 does not appear to be either known from or suggested by the available prior art.

3. Industrial applicability

The subject matter of claim 1 also appears to meet the requirement of PCT Article 33(4) because it would seem that it can be made and used at least in the field of automotive engineering.

4. Dependent claims

Dependent claims 2 to 15 relate to other embodiments of the invention according to claim 1 and also appear to meet the requirements of PCT Article 33(2) to (4).